

Ecophon Hygiene Advance™ A

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Ecophon Hygiene Advance A C4 is a unique wall to wall, sound absorbing ceiling system for use in demanding environments. All the suspension components, made of special treated steel, can endure daily wet cleaning with strong detergents and disinfectants. Examples of applications: areas with constantly high humidity and risk for corrosion; dish rooms and fish industry. The system is classified B1 and B5 for zone 4 according to standard NF S 90-351 and clean room classified according ISO 4.

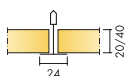
The system consists of Ecophon Hygiene Advance A tiles, which have a core of high density, glass wool fully encapsulated in a smooth high-performance film that is impervious to particles and water. The film is also dirt-

repellent and resistant to most chemicals. The supporting structure is a corrosion protected exposed Connect T24 C4 white grid of specially treated steel with a high corrosion resistance. The weight of the system is approximately 3 kg/m² (20 mm) and 4,5 kg/m² (40 mm). The tiles should be secured to the grid with Connect Hygiene clips in order to withstand pressure during cleaning and to minimise dirt traps. For access to the plenum a special Connect Democlip is used together with a Ecophon Hygiene Advance A tile in 20 mm thickness. The Ecophon Hygiene Advance A C4 is a technical ceiling system which might have aesthetic variations that will not affect the functionality of the system.



Engelsøien, Skagen, Denmark

SYSTEM RANGE



Size, mm	600x600	600x600	1200x600	1200x600
T24	•	•	•	•
Thickness (THK)	20	40	20	40
Inst. Diag.	M246	M246	M246	M246



Hygiene Advance A tile



Hygiene Advance A C4 system



Hygiene Advance A C4 section with
Connect Hygiene clip 20

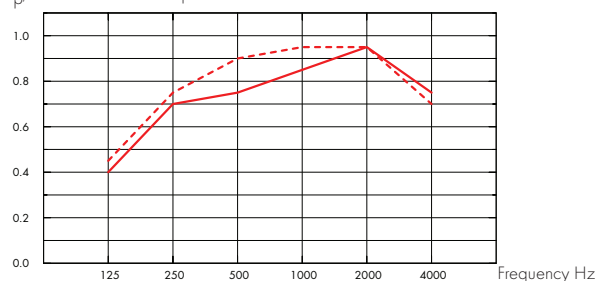


Acoustic

Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

α_p Practical sound absorption coefficient



— Hygiene Advance A 20 mm, 200 mm o.d.s.

- - - Hygiene Advance A 40 mm, 200 mm o.d.s.

o.d.s = overall depth of system

THK mm	o.d.s. mm	α_p Practical sound absorption coefficient						α_w	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
20	200	0.40	0.70	0.75	0.85	0.95	0.75	0.85	B
40	200	0.45	0.75	0.90	0.95	0.95	0.70	0.90	A

THK mm	o.d.s. mm	NRC	SAA
20	200	0.80	0.76
40	200	0.75	0.76



Accessibility

The tiles are demountable. Minimum demounting depth according to installation diagram. The tiles are secured using Connect Hygiene Clip to allow for effective cleaning. The clips are easily removable from above the ceiling. Connect Democlips 20 C4 are available to simplify access to the ceiling void.



Cleanability

Daily dusting, vacuum cleaning, wet cleaning, high-pressure washing and steam cleaning. Water temperature max. 70°C. Can withstand the use of most disinfecting chemicals. Withstand the use of hydrogen peroxide vapor.



Visual appearance

White 141, nearest NCS colour sample S 1000-N, 73% light reflectance. Please note: There is a small difference in gloss and appearance between the Hygiene Advance tile and the Hygiene Advance technical tile.



Influence of climate

The tiles withstand a permanent ambient RH up to 95% at 30°C without sagging, warping or delaminating (EN 13964). A higher temperature/moisture is permissible during washing as stated above. Microbiological growth class 0 according to ASTM G 21-96. Fulfills the requirements B1 and B5 of zone 4 according to NF S90-351. The grid and accessories meet the demands of corrosion class C4 according to EN ISO 12944-2.



Indoor Climate

Certificate / Label	
Finish M1	•
French VOC, A+	•
Swedish Asthma and Allergy Association	•
Danish Indoor Climate Label	•
California Emission Regulation, CDPH	•

Can be used in rooms classified as ISO class 4 according to ISO 14644-1.



Environmental influence

Partly recyclable.



CO₂

Kg CO ₂ equiv/m ²	4,0

From EPD in conformity with ISO 14040



Fire safety

Country	Standard	Class
Europe	EN 13501-1	A2-s1,d0

The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.



Mechanical properties

See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com.



Installation

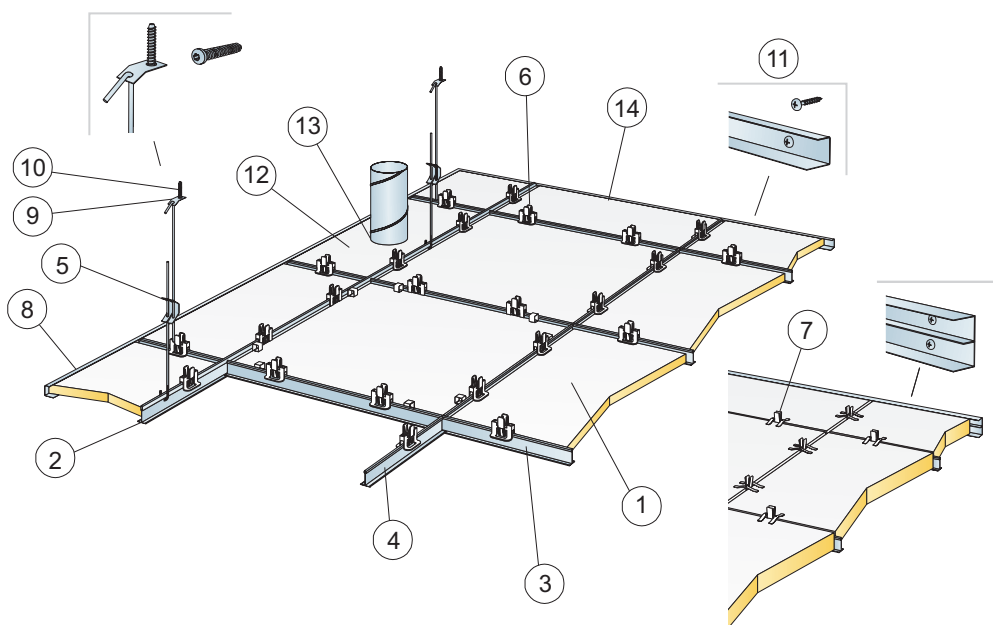
Installed according to installation diagrams, installation guides and drawing aid. Cut tiles must be sealed with Connect Hygiene Advance Tape. Penetrations must be sealed with a suitable sealant.



CE

The CE marking confirms important product performance such as sound absorption, emissions, fire safety and load bearing capacity. All Ecophon ceiling products are CE marked according to European standard EN13964, and individual product performance is declared in Declaration of Performance (DoP) documents.

INSTALLATION DIAGRAM (M246) FOR ECOPHON HYGIENE ADVANCE A C4



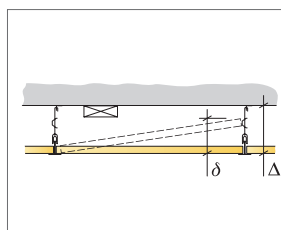
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QUANTITY SPECIFICATION (EXCL. WASTAGE)

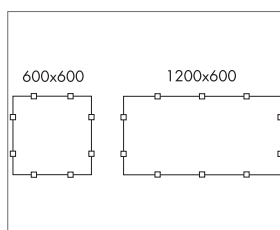
		Size, mm	
		600x600	1200x600
1	Hygiene Advance A	2,8/m ²	1,4/m ²
2	Connect T24 Main runner C4, c1200	0,9m/m ²	0,9m/m ²
3	Connect T24 Cross tee C4, L=1200, c600	1,7m/m ²	1,7m/m ²
4	Connect T24 Cross tee C4, L=600	0,9m/m ²	-
5	Connect Adjustable hanger C4, c1200, (max 600 mm distance from wall)	0,7/m ²	0,7/m ²
6	Connect Hygiene clip 20	11/m ²	7/m ²
7	Connect Hygiene clip 40 C4	11/m ²	7/m ²
8	Connect Channel trim C4, fixed at c300 mm	as required	as required
9	Connect Fixing plate C4	0,7/m ²	0,7/m ²
10	Connect Anchor screw C4	0,7/m ²	0,7/m ²
11	Connect Installation screw C4	3,4/lm Channel trim C4	
12	Ecophon Hygiene Advance technical tile (thickness 20 mm)	as required	as required
13	Joint sealant (not supplied by Ecophon)	as required	as required
14	Connect Hygiene Advance Tape	as required	as required

Δ Min. overall depth of system: 150 mm

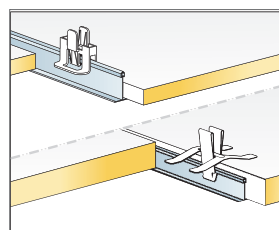
δ Min. demounting depth: 150 mm



See Quantity specification



Arrangement of clips



Clips for keeping tiles in place

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600	40	160
1200x600	40	160

Live load/load bearing capacity

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